



PolyUrethane TC 2K PU

Two Component Aliphatic Polyurethane UV Resistant Top Coat

DESCRIPTION

PolyUrethane TC 2K PU is two component aliphatic polyurethane based UV and weather resistant coating. It is ideal protective coating for exposed surfaces as it provides excellent weather resistance and light stability. PolyUrethane TC 2K PU films are hard, tough but flexible and display good solvent and gasoline resistance. PolyUrethane TC 2K PU is available in various colours.

TECHNICAL DATA

| | | | |
|--|---------------|-----------------------------------|------------|
| Pot Life at 30 °C | 4.30 - 5 hrs | Finish | Glossy |
| Adhesion to Steel & Concrete | Excellent | Volume Solids | 50 – 60 % |
| Coverage, m ² / L | 6 – 8 at 75 μ | DFT | 60 – 75 μ |
| Drying Time at 30 °C | | Recoat Time | |
| Surface Dry | 30 minutes | Minimum | 6 hrs |
| Hard Dry | 6 hrs | Maximum | 48 hrs |
| Full Cure | 7 days | | |
| Impact Resistance (kg cm) | > 100 | Abrasion Resistance | ~ 40 mg |
| Hardness, sec. (Pendulum Hardness after 7 days Curing) | 195 | Flexibility (Conical Mandrel), mm | < 1 |
| Temperature Resistance | Up to 120 °C | Application Temp. | 10 – 40 °C |
| Weathering Resistance (QUV) | 1000 hrs | Flash Point, °C | |
| | | Base | > 23 |
| | | Hardener | > 23 |

APPLICATIONS

- On shore and off shore industries
- Power plants
- Petrochemical and pharmaceutical complexes
- Cement and steel plants, transportation industries
- Infrastructure projects
- Chemical plants



ADVANTAGES

- Excellent UV and weather resistance
- Better adhesion and flexibility
- Mild chemical resistance

APPLICATION METHODOLOGY

- Clean surface by oil free compressed air, sandblasting, wire brushes or other mechanical means to ensure removal of all rust, oil, grease, dirt or any other loose particle prior to application of primer
- PolyUrethane TC 2K PU being a top coat, is applied over suitable anticorrosive primer or intermediate coats. Aged coatings should be roughened by emery paper grade 400 / 600 for better bonding
- Apply only on dry surface
- Stir the Component A and Component B separately. If setting is observed in the Component A, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing. Mix hardener gradually into the base under continuous stirring
- After mixing apply PolyUrethane TC 2K PU by brush, roller, conventional spray or airless spray. Use suitable compatible thinner to get the desired workability. Volume of thinner generally required varies from 5 – 15 % depending upon the method of application i.e. brush, roller, conventional spray or airless spray

| | Conventional Spray Application | Airless Spray Application |
|----------------------|---------------------------------------|----------------------------------|
| Thinner, % | 5 - 15 | 5 Max |
| Nozzle Orifice, mm | 1.2 – 1.4 | 0.28 |
| Nozzle Pressure, Psi | 40 - 70 | 1400 - 1800 |



CLEANING AND MAINTENANCE

- Clean all tools immediately after use with xylene. Do not allow material to harden

HEALTH AND SAFETY

- The product should not come in contact with the skin and eyes, or be swallowed
- Wear suitable protective clothing, gloves and eye protection
- Ensure adequate ventilation and avoid inhalation of vapours
- In case of contact with skin, rinse with plenty of water, then clean with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eye, rinse immediately with plenty of clean water and seek medical advice
- If swallowed seek medical attention immediately, do not induce vomiting.

PACKAGING

Available in 5 litre units consists of component A and B.

STORAGE

Must be stored in original packing at ambient temperature, dry place under shed away from heat.

SHELF LIFE

If stored in original unopened sealed under the above conditions, it has a shelf life of 12 months.